

## Attachment 4: Site Configurations

This attachment contains lists of the hardware connections each site made to their asynchronous ports and LDAD, and the local applications used during the OT&E. This attachment is organized by site in alphabetical order. Each site's configurations are listed in three tables:

LDAD Xyplex Connections  
Asynchronous Port Connections (these are made to the AS1VIR switches)  
Local Applications

All the sites also connected their local office LAN to the LDAD waveswitch. An assortment of systems are connected to office LAN and some of them were configured to send or receive AWIPS data by ftp transfers.

### LDAD Modems and Xyplex

This table lists the asynchronous connections in place at the beginning of the OT&E under the May 19 columns, in place at the beginning of Operations Phase of the OT&E under the June 14 columns, and in place at the end of the OT&E under the June 30 columns. The following information is listed under each column:

<b>Xyplex Port</b>	The port number on the LDAD xyplex
<b>Modem Number</b>	The number of the modem for the xyplex port
<b>Xyplex Port Speed</b>	The speed of the connection
<b>Phone Number</b>	The phone number connected to port, if known
<b>Port Usage</b>	A short description identifying what is connected to the port.

### AWIPS Internal Asynchronous Connections (AS1)

This table lists the asynchronous connections in place at the beginning of the OT&E under the May 19 columns, in place at the beginning of Operations Phase of the OT&E under the June 14 columns, and in place at the end of the OT&E under the June 30 columns. The following information is listed under each column:

<b>LINE #</b>	The asynchronous line number
<b>TTY</b>	The TTY port name
<b>Port Speed</b>	The speed of the connection
<b>NAME</b>	The name of the connection.

### Local Applications Needed at OT&E Sites

The OT&E sites represented a sample of the problems faced by all the NWS field sites. Local applications residing on PCs or written for use on AWIPS address many of the problems cited in the findings and are categorized as workarounds for various deficient or missing functions in

AWIPS. The local applications used by the sites during the OT&E were whittled to only the necessary applications needed by the sites. In a few cases, applications are necessary to provide a backup alternative to a function deemed acceptable in AWIPS. The local applications might reside on AWIPS servers, on PCs connected to LDAD or the office LAN, or on PCs connected to the asynchronous scheduler on AS1. Figure A3-1 shows how the sites used the LDAD capabilities to connect to their existing hardware. There were variations of what was connected to the LDAD ports depending on the needs of the sites as shown in the tables. Some of the connectivity needs were met by PCs remaining on the office LAN and exchanging data as needed through LDAD to AWIPS, and some were moved to the LDAD switch. The office LAN was connected to LDAD through port 16 of the LDAD waveswitch. A lesson learned through the OT&E was many sites have AFOS connected to their office LAN and don't realize some PCs connected to the office LAN are exchanging data with AFOS. During the commissioning evaluation for each site, this connection must be severed to demonstrate no dependency on AFOS.

The applications are listed according to the operational program needs they address for the WFOs (warning, public, aviation, hydrology, HMT, fire weather, marine, and miscellaneous tasks). The following identifies each column in these tables:

<b>Application</b>	Program name
<b>Description</b>	A short description of the function of the program
<b>Current Data Source</b>	The source of the data for the program during the operations phase of the OT&E
<b>Planned Data Source</b>	The connection the site would like to make to AWIPS (if different)
<b>Platform -Connection</b>	The machine on which the program currently resides (i.e., AWIPS or PC) and how it is connected to AWIPS (i.e., LDAD or APS)
<b>AWIPS Function</b>	Denotes whether a program addresses an existing function delivered in AWIPS that is deficient, addresses a function missing in AWIPS, or the site uses it as a backup to an acceptable AWIPS function.
<b>Site</b>	Site ID
<b>5/19</b>	Y denotes the application was in use at the beginning of the OT&E
<b>6/14</b>	Y denotes the application was in use at the beginning of Operations Phase of the OT&E
<b>6/30</b>	Y denotes the application was in use at the end of the OT&E. N denotes the site ceased using the application because they found the AWIPS feature adequate for their needs.

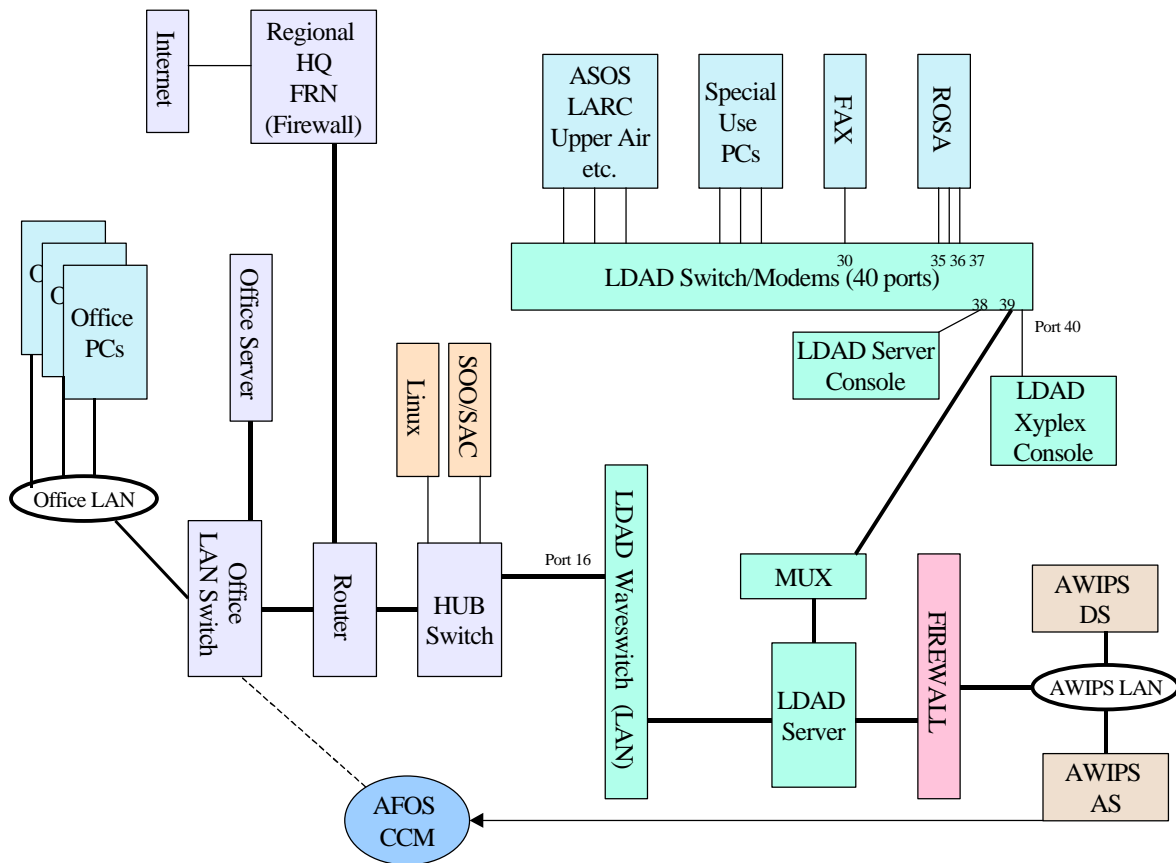
One can see how much progress a site made in connecting their needed applications prior to the OT&E, which ones they determined were needed for operations, and whether they decided to make a change in their determination of the applications they needed during the two and half weeks of the operations phase of the OT&E.

The RFC applications are sorted by the RFC major functions in approximate order they are used:

Data Ingest/Parsing/Posting  
Data Display/Quality Control

Preprocessing  
Forecast Models  
Product Generation/Distribution  
Oversight/Management/Support  
Development

All the RFC applications were moved to AWIPS before the OT&E began. MBRFC began using AWIPS as its primary machine in March, 1999. The table notes the application name, the server where it resides, the execution mode for the application, where the data flows from and to, and whether it is a national application supported by OH or is a local application maintained by the site.



**Figure A4-1.** LDAD - Site Hardware Connections









































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